ErlIDE

An eclipse feature for erlang development

Eclipse

- Evolved from Visual Age
- 100% Open Source
- 100% java
- IBM
- Major platforms
  (Windows, Mac, Linux)

ErlIDE

- A bunch of plugins for Eclipse
- Originally 100% java
- Code quantity: 60% java, 40% erlang

ErlIDE and OTP

- R13B or later
- Compiler
- JInterface
- special versions of syntax_tools, edoc, debugger, scanner

ErlIDE Features 1

- Erlang editor
  - Syntax highlight
  - Indentation
  - Pop-up documentation
  - Outlining
- Integrated compiler
  - Error list
- Todo-lists

ErlIDE Features 2

- Navigation
  - Open declarations with ctrl-click
  - Outline with filters
  - Quick select of declaration
  - Erlang navigator
- Documentation hover
  - OTP documentation
  - Macro and record declarations
  - Comments above functions

ErlIDE Features 3

- Project support
    - New erlang projects
    - Combining erlang and other (Java, C)
    - Importing erlang projects
- Integrated debugger
    - Breakpoints
    - Single-stepping, step into, step out
    - Multiple erlang processes
    - Local variable inspection
    - Change values

ErlIDE Features 4

- Semantic highlighting
- Erlang searching
- Support for erlang tracing (TTB and DBG)

Coming attractions

- Improved documentation support (edoc)
- Incremental background compiling
- Full code formatting
- Refactoring with syntax error correction
- Other nice and useful features

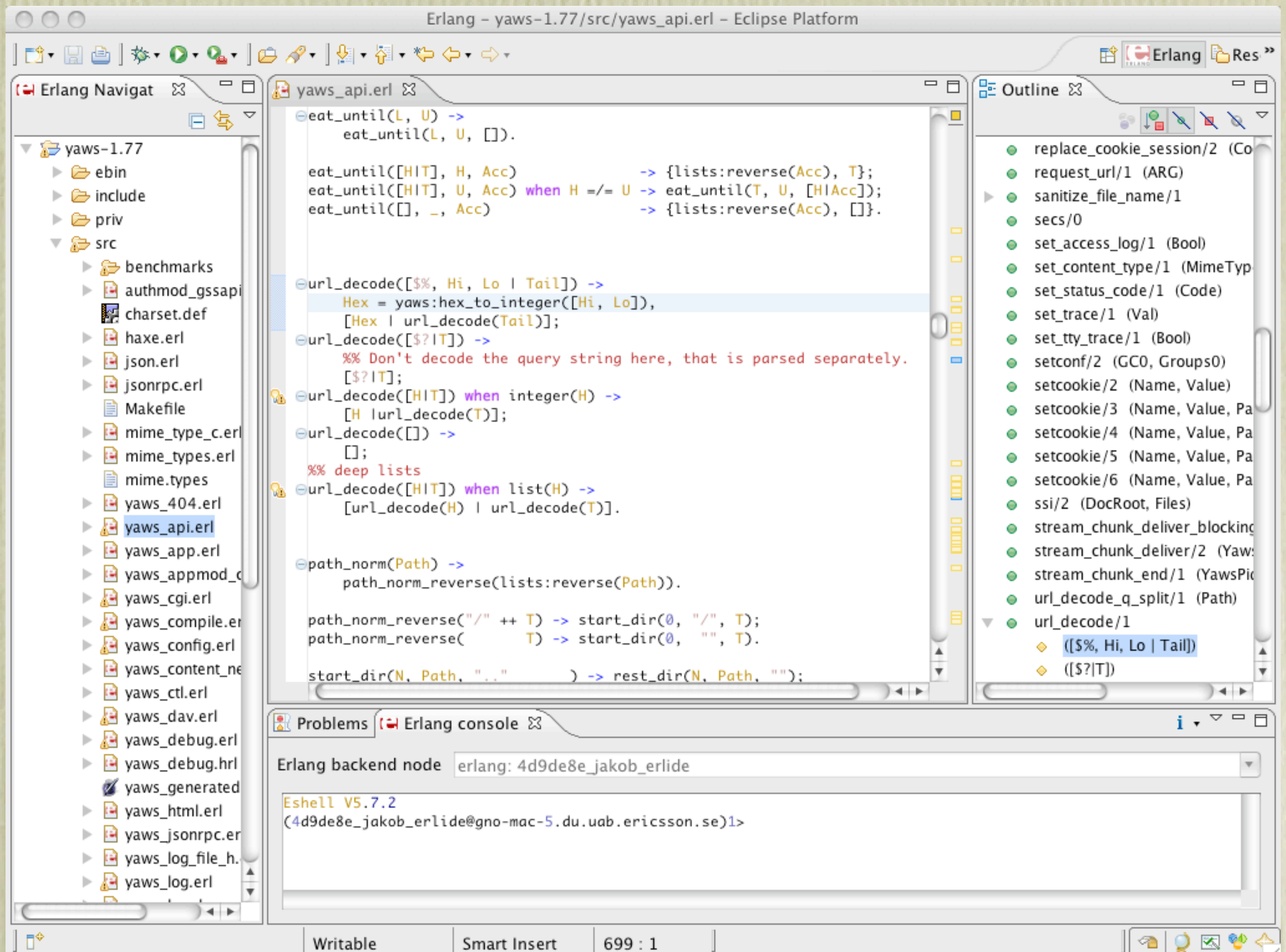
Installing

- Download and install Eclipse, 3.5 or later
- Download and install OTP, R13B02 or later
- Fetch ErlIDE from within Eclipse
- Set up Erlang runtime preferences
- Done

Editing

- Bracket matching
- Auto-indentation
- Completion
- Editing preferences

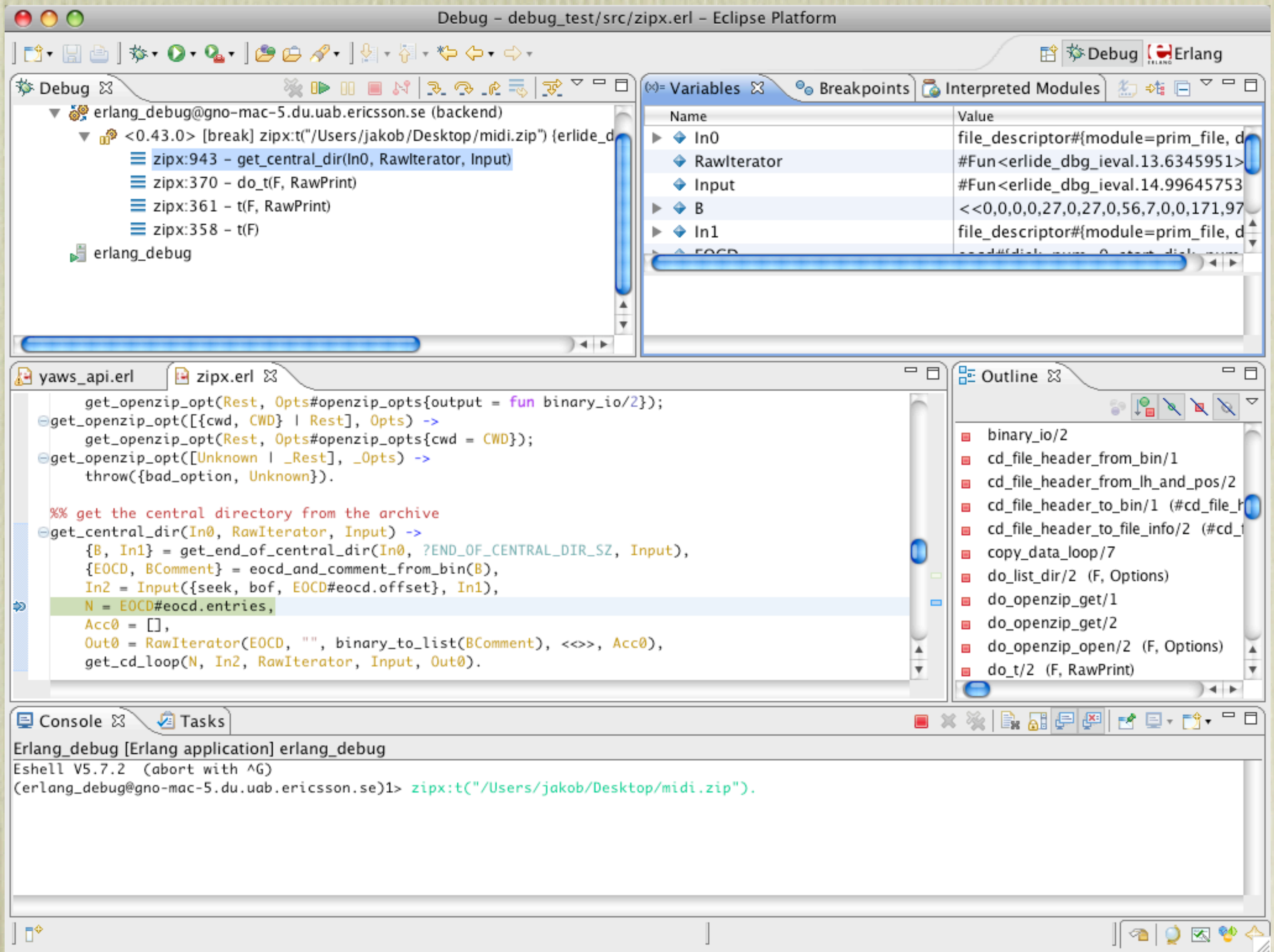
Editor and outline



Debugging and Launching

- Specifying runtime
  - Multiple runtimes
  - Different for IDE / building / running
- Project properties
- Launch Configurations
- Debugging
  - Starting project

Erlang debugger in Eclipse



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Exercise 2

Navigation 1

- Erlang outline
  - Filtering
  - Navigation
- Erlang navigator
  - Compare w. Package explorer
- Open
  - External function calls
  - Records and macros

Navigation 2

- Quick open (ctrl-O)
- Open module (ctrl-shift-M)
- Searching
- External files

Big projects

- Outline
  - Filtering is a good thing
- Ctrl-click to open
  - Navigation history (as in browser)
- Quick open
- Eclipse text search

Settings

- Setting runtime
- Erlang project properties
- Importing projects

Demo

External Resources

- http://erlide.org

  Installation instruction, documentation, release notes, mailing list

- http://github.com/erlide

  Git repo with source, wiki, new features

- http://www.assembla.com/spaces/erlide

  Issue tracker for the open source project